

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

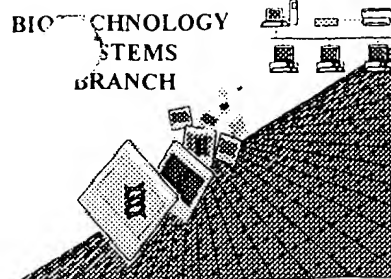
Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.

## **RAW SEQUENCE LISTING** **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/787,397

Source: PCT 09

Date Processed by STIC: 3-28-01

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/787,397

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ Misaligned Amino Acid Numbering      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ Variable Length      Sequence(s) \_\_\_\_\_ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ Skipped Sequences (OLD RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ Skipped Sequences (NEW RULES)      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☐ Use of n's or Xaa's (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☐ Use of <213>Organism (NEW RULES)      Sequence(s) \_\_\_\_\_ are missing this mandatory field or its response.
- 12 ☒ Use of <220>Feature (NEW RULES)      Sequence(s) <sup>1-2</sup> \_\_\_\_\_ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

PCT  
09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/787,397

DATE: 03/28/2001

TIME: 10:55:10

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282001\I787397.raw

**Does Not Comply  
Corrected Diskette Needed**

3 <110> APPLICANT: Goto, Masaaki  
 4 Tomoyasu, Akihiro  
 5 Yamaguchi, Kyoji  
 6 Kinoshita, Masahiko  
 7 Nakagawa, Nobuaki  
 9 <120> TITLE OF INVENTION: PREVENTIVE AND/OR THERAPEUTIC FOR OBESITY  
 11 <130> FILE REFERENCE: FJIN-107  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/787,397  
 C--> 13 <141> CURRENT FILING DATE: 2001-03-16  
 13 <160> NUMBER OF SEQ ID NOS: 4  
 15 <170> SOFTWARE: PatentIn version 3.0  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 29  
 19 <212> TYPE: DNA  
 20 <213> ORGANISM: Synthesized DNA  
 22 <400> SEQUENCE: 1  
 23 ggggctagcc aacaacttag cggaaactt  
 26 <210> SEQ ID NO: 2  
 27 <211> LENGTH: 29  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Synthesized DNA  
 31 <400> SEQUENCE: 2  
 32 ccctctgagt gtgtcaacac ccctaaaat  
 35 <210> SEQ ID NO: 3  
 36 <211> LENGTH: 741  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Human  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: promoter  
 42 <222> LOCATION: (1)..(3)  
 44 <220> FEATURE:  
 45 <221> NAME/KEY: terminator  
 46 <222> LOCATION: (739)..(741)  
 48 <300> PUBLICATION INFORMATION:  
 49 <301> AUTHORS: Olsen H. S. et al.  
 50 <302> TITLE: Human stanniocalcin : a possible hormonal regulator of mineral  
 51 metabolism.  
 52 <303> JOURNAL: Proc. Natl. Acad. Sci. USA  
 53 <304> VOLUME: 93  
 54 <305> ISSUE: 5  
 55 <306> PAGES: 1792  
 56 <307> DATE: 1996-03-05  
 57 <308> DATABASE ACCESSION NO: GenBank, U46768  
 58 <309> DATABASE ENTRY DATE: 1996-02-22  
 60 <400> SEQUENCE: 3  
 61 atgctccaaa actcagcagt gcttctggtg ctggtgatca gtgcttctgc aaccatgag 60  
 63 gcggagcaga atgactctgt gagccccagg aaatcccgag tggcggccca aaactcagct 120

Valid responses for &lt;213&gt;:

- Genus species of organism
- Unknown sequence
- Artificial S<sup>29</sup>quence.

\* Unknown and artificial sequences must include <220>, <223> features to explain the source of the sequence. See #12 on the Error Summary Sheet.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/787,397

DATE: 03/28/2001

TIME: 10:55:10

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282001\I787397.raw

```

65 gaagtgggttc gttgcctcaa cagtgcctcta caggteggtt ggggggcttt tgcattgcctg 180
67 gaaaactcca cctgtgacac agatgggatg tatgacatct gtaaactcctt cttgtacagc 240
69 gctgctaaat ttgacactca gggaaaagca ttctgcaaag agagcttaaa atgcatcgcc 300
71 aacgggggtca cctccaaggt ctctctcgcc attcggaggt gctccacttt ccaaaggatg 360
73 attgctgagg tgcaggaaga gtgctacagc aagctgaatg tgtgcagcat cgccaagcgg 420
75 aaccctgaag ccatcactga ggtcgtccag ctgcccaatc acttctccaa cagatactat 480
77 aacagacttg tccgaagcct gctggaatgt gatgaagaca cagtcagcac aatcagagac 540
79 agcctgatgg agaaaattgg gcctaacatg gccagcctct tccacatcct gcagacagac 600
81 cactgtgccc aaacacaccc acgagctgac ttcaacagga gacgcaccaa tgagccgcag 660
83 aagctgaaag tcctcctcag gaacctccga ggtgaggagg actctccctc ccacatcaaa 720
85 cgcacatccc atgagagtgc a
86

```

88 &lt;210&gt; SEQ ID NO: 4

89 &lt;211&gt; LENGTH: 247

90 &lt;212&gt; TYPE: PRT

91 &lt;213&gt; ORGANISM: Human

93 &lt;300&gt; PUBLICATION INFORMATION:

94 &lt;301&gt; AUTHORS: Olsen H. S. et al.

95 &lt;302&gt; TITLE: Human stanniocalcin : a possible hormonal regulator of mineral metabolism.

97 &lt;303&gt; JOURNAL: Proc. Natl. Acad. Sci. USA

98 &lt;304&gt; VOLUME: 93

99 &lt;305&gt; ISSUE: 5

100 &lt;306&gt; PAGES: 1792

101 &lt;307&gt; DATE: 1996-03-05

W--&gt; 102 &lt;309&gt; DATABASE ENTRY DATE: \_\_\_\_\_

*No accession number  
This entry not needed.*

104 &lt;400&gt; SEQUENCE: 4

```

106 Met Leu Gln Asn Ser Ala Val Leu Leu Val Leu Val Ile Ser Ala Ser
107 1 5 10 15
109 Ala Thr His Glu Ala Glu Gln Asn Asp Ser Val Ser Pro Arg Lys Ser
110 20 25 30
112 Arg Val Ala Ala Gln Asn Ser Ala Glu Val Val Arg Cys Leu Asn Ser
113 35 40 45
115 Ala Leu Gln Val Gly Cys Gly Ala Phe Ala Cys Leu Glu Asn Ser Thr
116 50 55 60
118 Cys Asp Thr Asp Gly Met Tyr Asp Ile Cys Lys Ser Phe Leu Tyr Ser
119 65 70 75 80
121 Ala Ala Lys Phe Asp Thr Gln Gly Lys Ala Phe Val Lys Glu Ser Leu
122 85 90 95
124 Lys Cys Ile Ala Asn Gly Val Thr Ser Lys Val Phe Leu Ala Ile Arg
125 100 105 110
127 Arg Cys Ser Thr Phe Gln Arg Met Ile Ala Glu Val Gln Glu Glu Cys
128 115 120 125
130 Tyr Ser Lys Leu Asn Val Cys Ser Ile Ala Lys Arg Asn Pro Glu Ala
131 130 135 140
133 Ile Thr Glu Val Val Gln Leu Pro Asn His Phe Ser Asn Arg Tyr Tyr
134 145 150 155 160
136 Asn Arg Leu Val Arg Ser Leu Leu Glu Cys Asp Glu Asp Thr Val Ser
137 165 170 175
139 Thr Ile Arg Asp Ser Leu Met Glu Lys Ile Gly Pro Asn Met Ala Ser

```

[illegible]

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/787,397

DATE: 03/28/2001

TIME: 10:55:11

Input Set : A:\PTO.txt

Output Set: N:\CRF3\03282001\I787397.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:102 M:286 W: Invalid Database Entry: Valid Formats YYYY-MM-DD or MMM-YYYY, SEQ ID:4